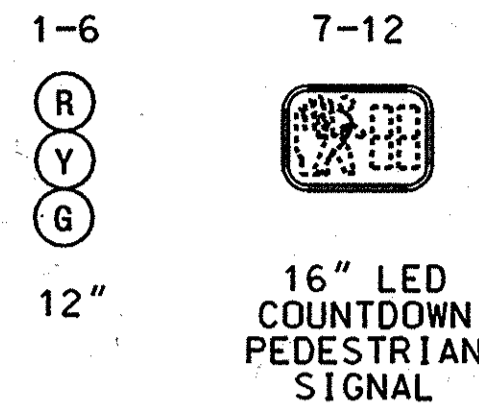


MD 187 IS ASSUMED TO RUN IN THE NORTH/SOUTH DIRECTION

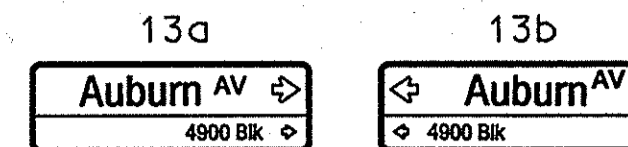
PROPOSED L.E.D. SIGNALS



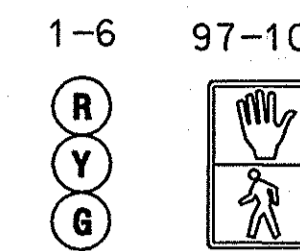
PROPOSED VIDEO DETECTION CAMERA



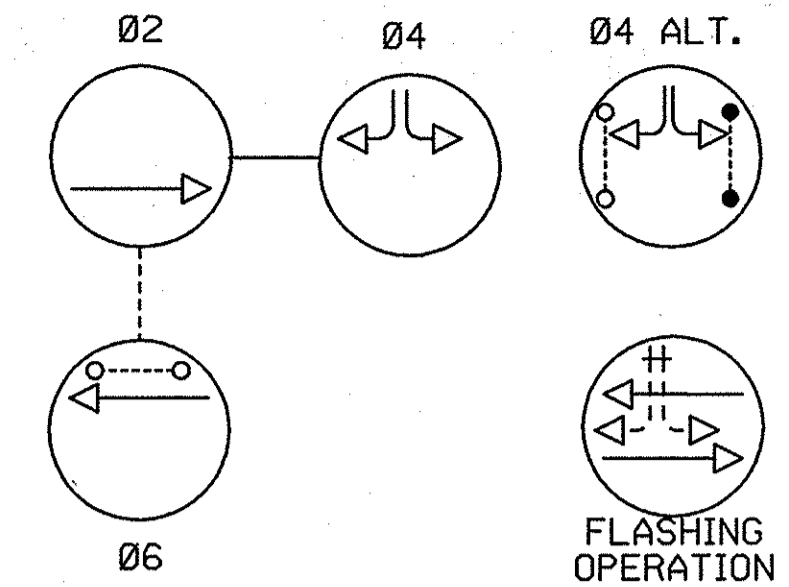
EXISTING SIGNS



EXISTING SIGNALS TO BE REMOVED

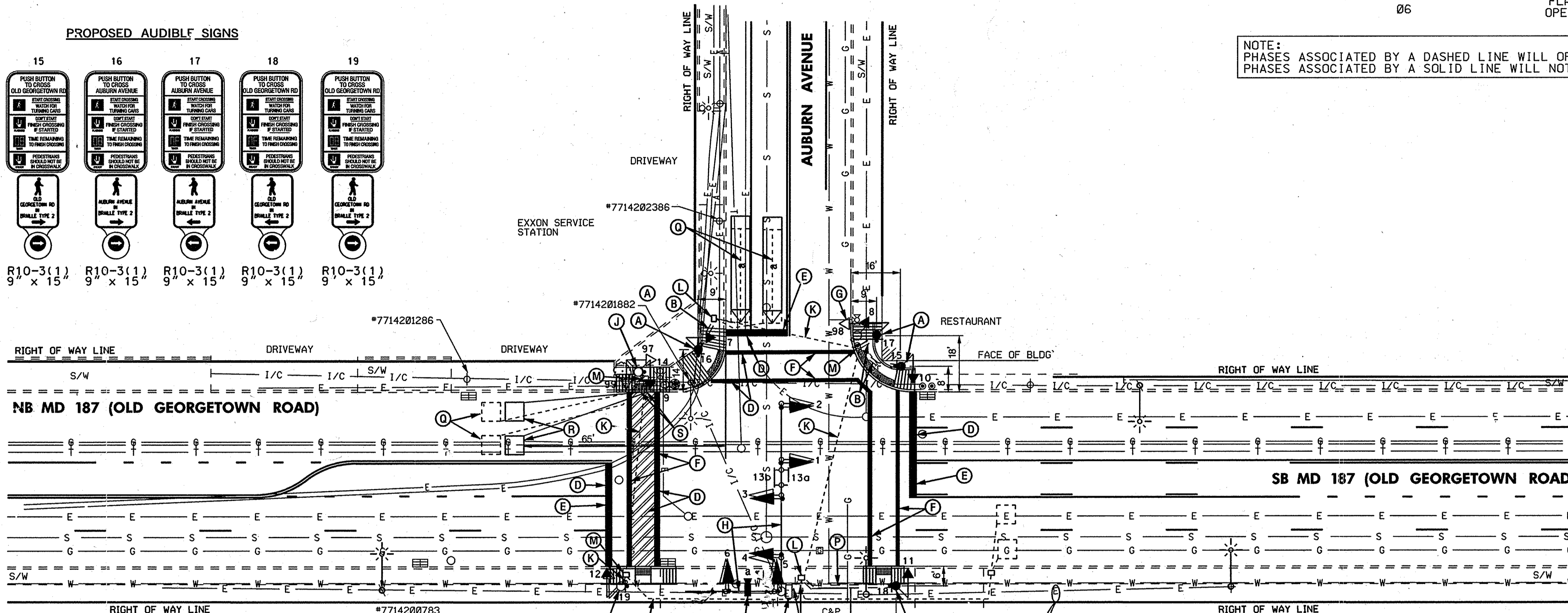
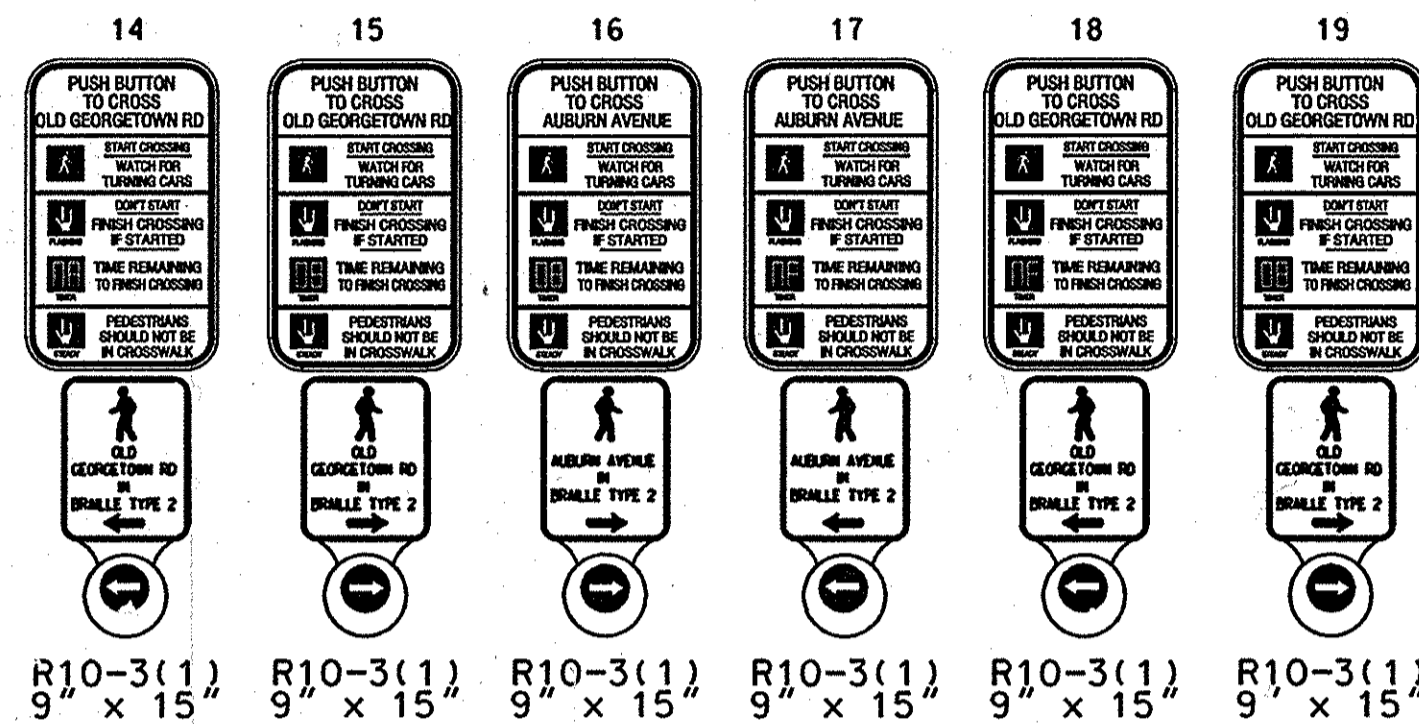


NEMA PHASING



NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

PROPOSED AUDIBLE SIGNS



CONSTRUCTION DETAILS

- INSTALL MODIFIED PEDESTAL POLE BASE (MD 801.01) FOR 10 FT. PEDESTAL POLE WITH BREAKAWAY COUPLINGS (MD 818.16-01), COUNTDOWN PEDESTRIAN SIGNALS, AUDIBLE TACTILE PUSHBUTTON STATION AND SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
- INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED
- INSTALL VIDEO DETECTION CAMERA ON EXISTING MAST ARM.
- REMOVE EXISTING PAVEMENT MARKING LINES.
- INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
- INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
- REMOVE EXISTING POLE AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
- REMOVE EXISTING SIGNAL HEADS AND INSTALL NEW BLACK FACE LED SIGNAL HEADS ON EXISTING MAST ARM AS SHOWN.
- REMOVE EXISTING PEDESTRIAN SIGNALS AND PUSHBUTTON ON EXISTING POLE AND INSTALL COUNTDOWN PEDESTRIAN SIGNALS, AUDIBLE TACTILE PUSHBUTTON STATION AND SIGN.
- USE EXISTING CONDUIT.
- USE EXISTING HANDHOLE.
- USE EXISTING HANDHOLE AND ADJUST TO GRADE.
- USE EXISTING CABINET AND CONTROLLER.
- INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED (REPLACE SIDEWALK AS NECESSARY)
- DISCONNECT AND REMOVE LOOP WIRE FROM EXISTING DETECTOR.
- INSTALL 6' x 6' LOOP DETECTOR.
- INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE.

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.

- PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- THE CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER IN THE SOUTHEAST QUADRANT PRIOR TO INSTALLATION OF THE SIDEWALK RAMPS.

TOD # XX449-08
SHA# MO527A53/B53

GEOMETRIC LEGEND

===== EXISTING
----- PROPOSED

UTILITY LEGEND

SD	SD	STORM DRAIN
G	G	GAS MAIN
W	W	WATER MAIN
S	S	SEWER MAIN
E	E	ELECTRIC CABLES
A	A	AERIAL CABLES
T	T	TELEPHONE CABLES
F	F	FIBER-OPTIC

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APPROVALS	REVISIONS
TEAM LEADER ASST. DIV. CHIEF DIVISION CHIEF OFFICE DIRECTOR	06/08 CONTRACT NO. XX4495185 UPGRADE SIGNAL FOR APS, CPS AND RAMPS NG 10/13/08 2-13-08 RECONSTRUCT TRAFFIC SIGNAL.

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION	
MD 187 (OLD GEORGETOWN RD) AND AUBURN AVE.	
TRAFFIC SIGNAL PLAN	
SCALE 1" = 20' ADVERTISED DATE CONTRACT NO. XX4495185	
DESIGNED BY	COUNTY MONTGOMERY
DRAWN BY	LOGMILE 15018700.46
CHECKED BY	TMS NO. 1348
APP. NO.	TOD NO.
TS NO. TS-3784B	DRAWING 1 OF 1 SHEET NO. 1 OF 3

PLOTTED: Thursday, June 18, 2008 AT 02:34 PM
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